SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
PART 1 - GENERAL
1.1 PERFORMANCE REQUIREMENTS
A. General: Develop waste management plan that results in end-of-Project rates for salvage/recycling of a minimum 50 percent by weight of total waste generated by the Work.
1.2 SUBMITTALS
A. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit two copies of report. Include separate reports for demolition and construction waste. Include the following information:
1. Material category.
2. Generation point of waste.
3. Total quantity of waste in tons.
4. Quantity of waste salvaged, both estimated and actual in tons.
5. Quantity of waste recycled, both estimated and actual in tons.
6. Total quantity of waste recovered (salvaged plus recycled) in tons.
7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.
B. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.
C. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
D. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
1.3 WASTE MANAGEMENT PLAN
A. General: Develop plan consisting of waste identification, waste reduction work plan, and cost/revenue analysis. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.
B. Waste Identification: Indicate anticipated types and quantities of demolition and construction waste generated by the Work. Include estimated quantities and assumptions for estimates.
C. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures.
1. Salvaged Materials for Reuse: For materials that will be salvaged and reused in this Project, describe methods for preparing salvaged materials before incorporation into the Work.
2. Salvaged Materials for Donation: For materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers.
3. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
4. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.
5. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location on Project site where materials separation will be located.
PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION
3.1 PLAN IMPLEMENTATION
A. General: Implement waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
B. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.
1. Distribute waste management plan to everyone concerned within three days of submittal return.
2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.
C. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
3.2 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL
A. General: Recycle paper and beverage containers used by on-site workers.
B. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical.
1. Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
a. Inspect containers and bins for contamination and remove contaminated materials if found.
2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
4. Store components off the ground and protect from the weather.
5. Remove recyclable waste off Owner's property and transport to recycling receiver or processor.
3.3 RECYCLING DEMOLITION WASTE
A. Concrete: Remove reinforcement and other metals from concrete and sort with other metals.
B. Wood Materials: Sort and stack members according to size, type, and length. Separate lumber, engineered wood products, panel products, and treated wood materials.
C. Metals: Separate metals by type.
1. Structural Steel: Stack members according to size, type of member, and length.
2. Remove and dispose of bolts, nuts, washers, and other rough hardware.
D. Gypsum Board: Stack large clean pieces on wood pallets and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners.
E. Acoustical Ceiling Panels and Tile: Stack large clean pieces on wood pallets and store in a dry location.
1. Separate suspension system, trim, and other metals from panels and tile and sort with other metals.
F. Carpet: Roll large pieces tightly after removing debris, trash, adhesive, and tack strips.
1. Store clean, dry carpet in a closed container or trailer provided by Carpet Reclamation Agency or carpet recycler.
G. Equipment: Drain tanks, piping, and fixtures. Seal openings with caps or plugs. Protect equipment from exposure to weather.
H. Plumbing Fixtures: Separate by type and size.
I. Piping: Reduce piping to straight lengths and store by type and size. Separate supports, hangers, valves, sprinklers, and other components by type and size.
J. Lighting Fixtures: Separate lamps by type and protect from breakage.
K. Electrical Devices: Separate switches, receptacles, switchgear, transformers, meters, panelboards, circuit breakers, and other devices by type.
L. Conduit: Reduce conduit to straight lengths and store by type and size.
3.4 RECYCLING CONSTRUCTION WASTE
A. Packaging:
1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
2. Polystyrene Packaging: Separate and bag materials.
3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.
B. Wood Materials:
1. Clean Cut-Offs of Lumber: Grind or chip into small pieces.
2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood.
C. Gypsum Board: Stack large clean pieces on wood pallets and store in a dry location.
3.5 DISPOSAL OF WASTE
A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
B. Disposal: Transport waste materials off Owner's property and legally dispose of them.
END OF SECTION 01 74 19

SECTION 02 41 19 - SELECTIVE STRUCTURE DEMOLITION
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Comply with EPA regulations and hauling and disposal regulations of authorities having jurisdiction.
B. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
C. It is not expected that hazardous materials will be encountered in the Work. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner will remove hazardous materials under a separate contract.
PART 2 - PRODUCTS (Not Applicable)
PART 3 - EXECUTION
3.1 DEMOLITION
A. Maintain services/systems indicated to remain and protect them against damage during selective demolition operations. Before proceeding with demolition, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of the building.
B. Locate, identify, shut off, disconnect, and cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
C. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
D. Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain or construction being demolished.
E. Provide temporary weather protection to prevent water leakage and damage to structure and interior areas.
F. Protect walls, ceilings, floors, and other existing finish work that are to remain. Erect and maintain dustproof partitions. Cover and protect furniture, furnishings, and equipment that have not been removed.
G. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.
H. Promptly remove demolished materials from Owner's property and legally dispose of them. Do not burn demolished materials.
END OF SECTION 02 41 19

SECTION 07 92 00 - JOINT SEALANTS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and color Samples.
B. Environmental Limitations: Do not proceed with installation of joint sealants when ambient and substrate temperature conditions are outside limits permitted by joint sealant manufacturer or are below 40 deg F.
PART 2 - PRODUCTS
2.1 JOINT SEALANTS
A. Compatibility: Provide joint sealants, joint fillers, and other related materials that are compatible with one another and with joint substrates under service and application conditions.

C. Sealant for Use in Interior Joints in Ceramic Tile and Other Hard Surfaces in Toilet Rooms and Around Plumbing Fixtures:
1. Single-component, mildew-resistant silicone sealant, ASTM C 920, Type S; Grade NS; Class 25; Uses NT, G, A, and O; formulated with fungicide.
D. Sealant for Interior Use at Perimeters of Door and Window Frames:
1. Latex sealant, single-component, nonsag, mildew-resistant, paintable, acrylic-emulsion sealant complying with ASTM C 834.
E. Acoustical Sealant for Exposed Interior Joints:
1. Nonsag, paintable, nonstaining, latex sealant complying with ASTM C 834.
F. Acoustical Sealant for Concealed Joints:
1. Nondrying, nonhardening, nonskinning, nonstaining, gunnable, synthetic-rubber sealant recommended for sealing interior concealed joints to reduce transmission of airborne sound.
2.2 JOINT-SEALANT BACKING
A. General: Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer.
B. Cylindrical Sealant Backings: ASTM C 1330, of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Comply with ASTM C 1193.
B. Install sealants using proven techniques that comply with the following:
1. Place sealants so they directly contact and fully wet joint surfaces.
2. Completely fill recesses in each joint configuration.
3. Produce uniform depths and shapes relative to joint width.
C. Comply with ASTM C 919 for use of joint sealants in acoustical applications.
D. Clean off excess sealant adjacent to joints as the Work progresses by methods and cleaning materials approved in writing by manufacturer of joint sealant and of product in which joints occur.
END OF SECTION 07 92 00

SECTION 08 14 16 - FLUSH WOOD DOORS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Samples for factory-finished doors.
B. Quality Standard: WDMA I.S.1-A.
C. Fire-Rated Wood Doors: Labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing per NFPA 252.
1. At stairs and exit passageways, provide doors that have a temperature rise rating of 450 deg F.
PART 2 - PRODUCTS
2.1 DOOR CONSTRUCTION, GENERAL
A. WDMA I.S.1-A Performance Grade:
1. Heavy Duty unless otherwise indicated.
B. Core Doors: Provide partical board lumber cores for doors.
C. Fire-Protection-Rated Doors: Provide core specified or mineral core as needed to provide fire-protection rating indicated. Provide the following for mineral-core doors:
1. Composite blocking where required to eliminate through-bolting hardware.
2. Laminated-edge construction.
3. Formed-steel edges and astragals for pairs of doors.
2.2 FLUSH WOOD DOORS
A. Doors for Transparent Finish:
1. Interior Solid-Core Doors: Custom grade, five or seven-ply, structural composite lumber cores.
a. Faces: Grade A species as indicated.
b. Veneer Matching: Slip match, end balanced.
c. Pair matching and set matching.
d. Continuous matching for doors with transoms.
2.3 FABRICATION AND FINISHING
A. Factory fit doors to suit frame-opening sizes indicated and to comply with clearances specified.
B. Factory machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3.
C. Factory finish doors indicated for transparent finish with stain and manufacturer's standard finish complying with WDMA System TR-4, conversion varnish for grade specified for doors.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install doors to comply with manufacturer's written instructions, WDMA I.S.1-A and as indicated.
1. Install fire-rated doors to comply with NFPA 80.
B. Align and fit doors in frames with uniform clearances and bevels. Machine doors for hardware. Seal cut surfaces after fitting and machining.
C. Clearances: As follows, unless otherwise indicated:
1. 1/8 inch at heads, jambs, and between pairs of doors.
2. 1/8 inch from bottom of door to top of decorative floor finish or covering.
3. 1/4 inch from bottom of door to top of threshold.
4. Comply with NFPA 80 for fire-rated doors.
D. Repair, refinish, or replace factory-finished doors damaged during installation, as directed by Architect.
END OF SECTION 08 14 16

SECTION 08 71 00 - DOOR HARDWARE
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: key schedule to be coordinated with tenant and operate under building master systems.
B. Deliver keys to Owner.
C. Fire-Resistance-Rated Assemblies: Provide products that comply with NFPA 80 and are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction for applications indicated. On exit devices provide label indicating "Fire Exit Hardware."
PART 2 - PRODUCTS
A. Hinges:
1. Hinges with stainless-steel pins for exterior.
2. Nonremovable hinge pins for exterior and public interior exposure.
3. Ball-bearing hinges for doors with closers and entry doors.
4. 3 hinges for 1-3/4-inch- thick doors 90 inches or less in height; 4 hinges for doors more than 90 inches in height.
B. Locksets and Latchsets:
1. BHMA A156.2, Series 4000, Grade 1 for bored locks and latches.
2. BHMA A156.3, Grade 1 for exit devices.
3. BHMA A156.5, Grade 1 for auxiliary locks.
4. BHMA A156.13, Series 1000, Grade 1 for mortise locks and latches.
5. Lever handles on locksets and latchsets.
6. Provide trim on exit devices matching locksets.
C. Key locks to Owner's new master-key system.
1. Cylinders to match building system. During construction, utilize construction thumbturns or green construction cores where locking is necessary for site security.
2. Provide cylinders for overhead doors, storefront doors, and other locking doors that do not require other hardware.
D. Closers:
1. Mount closers on interior side (room side) of door opening. Provide regular-arm, parallel-arm, or top-jamb-mounted closers as necessary.
2. Adjustable delayed opening (accessible to people with disabilities) feature on closers.
E. Provide wall stops or floor stops for doors without closers.
F. Provide hardware finishes as indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Mount hardware in locations recommended by the Door and Hardware Institute unless otherwise indicated.
END OF SECTION 08 71 00

SECTION 08 80 00 - GLAZING
PART 1 - GENERAL (Not Applicable)
1.1 SECTION REQUIREMENTS
A. Glass Thickness: Comply with ASTM C1036 for glass lites.
1. Deflection subject to rejection by Architect.
PART 2 - PRODUCTS
2.1 GLASS
A. Heat-Treated Float Glass: ASTM C 1048, Condition A (uncoated) or Condition C (coated), Type I, Class 1 (clear) or Class 2 (tinted), Quality Q3, Kind FT (fully tempered) as indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Comply with combined recommendations of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are contained in GANA's "Glazing Manual."
B. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
C. Remove nonpermanent labels, and clean surfaces immediately after installation.
END OF SECTION 08 80 00

SECTION 08 83 00 - MIRRORS
PART 1 - GENERAL
1.1 SUBMITTALS
A. Product Data: For mirror hardware.
1.2 QUALITY ASSURANCE
A. Glazing Publications: Comply with GANA's "Glazing Manual" and GANA Mirror Division's "Mirrors, Handle with Extreme Care: Tips for the Professional on the Care and Handling of Mirrors" unless more stringent requirements are indicated
PART 2 - PRODUCTS
2.1 SILVERED FLAT GLASS MIRROR MATERIALS
A. Clear Glass Mirrors: ASTM C 1503, Mirror Glazing Quality.
2.2 MISCELLANEOUS MATERIALS
A. Setting Blocks: Elastomeric material with a Type A Shore durometer hardness of 85, plus or minus 5.
B. Edge Sealer: Coating compatible with glass coating and approved by mirror manufacturer for use in protecting against silver deterioration at mirrored glass edges.
C. Mirror Mastic: An adhesive setting compound, produced specifically for setting mirrors and certified by both mirror manufacturer and mastic manufacturer as compatible with glass coating and substrates on which mirrors will be installed.
2.3 MIRROR HARDWARE
A. Mirror Clips: As indicated.
B. Mirror Standoff: As indicated.
C. Fasteners: Fabricated of same basic metal and alloy as fastened metal and matching it in finished color and texture where fasteners are exposed.
D. Anchors and Inserts: Provide devices as required for mirror hardware installation. Provide toothed or lead-shield expansion-bolt devices for drilled-in-place anchors. Provide galvanized anchors and inserts for applications on inside face of exterior walls and where indicated.
2.4 FABRICATION
A. Mirror Sizes: To suit Project conditions, cut mirrors to final sizes and shapes.
B. Cutouts: Fabricate cutouts for notches and holes in mirrors without marring visible surfaces. Locate and size cutouts so they fit closely around penetrations in mirrors. Cutouts to be approved by Architect.
C. Mirror Edge Treatment: Rounded polished edge.
1. Seal edges of mirrors after edge treatment to prevent chemical or atmospheric penetration of glass coating.
PART 3 - EXECUTION
3.1 INSTALLATION
A. General: Install mirrors to comply with mirror manufacturer's written instructions and with referenced GANA publications. Mount mirrors accurately in place in a manner that avoids distorting reflected images.
B. Provide a minimum air space of 1/8 inch (3 mm) between back of mirrors and mounting surface for air circulation between back of mirrors and face of mounting surface.
C. For wall-mounted mirrors, install with mirror hardware.
1. Attach mirror hardware securely to mounting surfaces with mechanical fasteners installed with anchors or inserts as applicable. Install fasteners so heads do not impose point loads on backs of mirrors.
D. Protect mirrors from breakage and contaminating substances resulting from construction operations.
E. Do not permit edges of mirrors to be exposed to standing water.
F. Maintain environmental conditions that will prevent mirrors from being exposed to moisture from condensation or other sources for continuous periods of time.
END OF SECTION 08 83 00

SECTION 09 22 16 - NON-STRUCTURAL METAL FRAMING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data.
B. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
PART 2 - PRODUCTS
2.1 METAL FRAMING AND SUPPORTS
A. Steel Framing Members, General: ASTM C 754.
1. Steel Sheet Components: ASTM C 645. Thickness specified is minimum uncoated base-metal thickness.
2. Protective Coating: ASTM A 653/A 653M, G40, hot-dip galvanized zinc coating.
B. Suspended Ceiling and Soffit Framing:
1. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.0625-inch diameter, or double strand of 0.0475-inch- diameter wire.
2. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, and 0.162-inch diameter.
C. Partition and Soffit Framing:
1. Studs and Runners: In depth and thickness as indicated.
2. Flat Strap and Backing: 0.0179 inch thick.
3. Rigid Hat-Shaped Furring Channels: In depth indicated and 0.0179 inch thick.
4. Resilient Furring Channels: 1/2 inch deep, with single- or double-leg configuration.
5. Cold-Rolled Furring Channels: 0.0538 inch thick, 3/4 inch deep.
6. Z-Furring: In depth required by insulation, 1-1/4-inch face flange, 7/8-inch wall-attachment flange, and 0.0179 inch thick.
2.2 ACCESSORIES
A. General: Comply with referenced installation standards.
1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install steel framing to comply with ASTM C 754 and with ASTM C 840 requirements that apply to framing installation and with United States Gypsum's "Gypsum Construction Handbook."
B. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
C. Isolate steel framing from building structure, except at floor, to prevent transfer of loading imposed by structural movement.
D. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies.
END OF SECTION 09 22 16

SECTION 09 29 00 - GYPSUM BOARD
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data.
B. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
C. STC-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 90 and classified per ASTM E 413 by a qualified independent testing and inspecting agency.
PART 2 - PRODUCTS
2.1 PANEL PRODUCTS
A. Provide in maximum lengths available to minimize end-to-end butt joints.
B. Interior Gypsum Board: ASTM C 36/C 36M or ASTM C 1396/C 1396M, in thickness indicated, with manufacturer's standard edges. Type X where indicated and Sag-resistant type for ceiling surfaces.
2.2 ACCESSORIES
A. Trim Accessories: ASTM C 1047, formed from galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized-steel sheet. For exterior trim, use accessories formed from hot-dip galvanized-steel sheet, plastic, or rolled zinc.
1. Provide cornerbead at outside corners unless otherwise indicated.
2. Provide LC-bead (J-bead) at exposed panel edges.
3. Provide control joints where indicated.
B. Aluminum Accessories: Extruded-aluminum accessories indicated with Class II, clear anodic finish; AA-C12C22A31.
C. Joint-Treatment Materials: ASTM C 475/C 475M.
1. Joint Tape: Paper unless otherwise recommended by panel manufacturer.
2. Joint Compounds: Drying-type, ready-mixed, all-purpose compounds.
3. Skim Coat: For final coat of Level 5 finish, use high-build interior coating product designed for application by airless sprayer and to be used instead of skim coat to produce Level 5 finish.
D. Acoustical Sealant for Exposed and Concealed Joints: Nonsag, paintable, nonstaining latex sealant complying with ASTM C 834.
E. Sound-Attenuation Blankets: ASTM C 665, Type I (unfaced).
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install gypsum board to comply with ASTM C 840.
1. Isolate gypsum board assemblies from abutting structural and masonry work. Provide edge trim and acoustical sealant.
2. Single-Layer Fastening Methods: Fasten gypsum panels to supports with screws.
3. Multilayer Fastening Methods: Fasten base layers and face layer separately to supports with screws.
B. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies.
C. Finishing Gypsum Board: ASTM C 840.
1. At concealed areas, unless a higher level of finish is required for fire-resistance-rated assemblies, provide Level 1 finish: Embed tape at joints.
2. At substrates for tile, provide Level 2 finish: Embed tape and apply separate first coat of joint compound to tape, fasteners, and trim flanges.
3. Unless otherwise indicated, provide Level 4 finish: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges.
4. Where indicated, provide Level 5 finish: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges. Apply skim coat to entire surface.
END OF SECTION 09 29 00

SECTION 09 30 00 - TILING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data for tile and installation materials and Samples for tile.
B. Floor Tiles: Static coefficient of friction not less than 0.6 for level surfaces and 0.8 for ramps, per ASTM C 1028.
PART 2 - PRODUCTS
2.1 TILE
A. Tile that complies with Standard grade requirements in ANSI A137.1, "Specifications for Ceramic Tile."
2.2 INSTALLATION MATERIALS
A. VOC Limit for Adhesives and Fluid-Applied Waterproofing Membranes: 65 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
B. Crack-Suppression Membranes for Thin-Set Tile Installation: Manufacturers standard fabric-reinforced liquid latex product complying with ANSI A118.10.
1. Install for flooring tiles of 12 by 12 or larger.
C. Setting and Grouting Materials: Comply with material standards in ANSI's "Specifications for the Installation of Ceramic Tile" that apply to materials and methods indicated.
1. Thin-Set Mortar Type: Latex-portland cement.
2. Grout Type: Polymer modified unless otherwise indicated.
3. Grout Color: As indicated on Finish Schedule.
D. Metal Edge Strips: Angle of L-Shap, height to match tile and setting-bed thickness, metal designed specifically for flooring application.
E. Grout Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Comply with tile installation standards in ANSI's "Specifications for the Installation of Ceramic Tile" that apply to materials and methods indicated.
1. For installations indicated below, follow procedures in ANSI's "Specifications for the Installation of Ceramic Tile" for providing 95 percent mortar coverage.
a. Tile floors composed of tiles 8 by 8 inches or larger.
b. Tile floors composed of rib-backed tiles.
B. Comply with TCA's "Handbook for Ceramic Tile Installation."
C. Floor Tile Installation Method(s):
1. Over Concrete Subfloors: TCA F113 (thin-set mortar on concrete).
2. Over Concrete Subfloors for Floor Tile 12 by 12 Inches or Larger: TCA F122 thin-set mortar over crack suppression membrane on concrete.
D. Wall Tile Installation Method(s):
1. Over Gypsum Board: TCA W242 (organic adhesive on gypsum board and metal studs).
2. Over Glass-Mat, Water-Resistant Backer Board: TCA W245 with thin-set mortar (thin-set mortar on glass-mat, water-resistant backer board).
E. Install tiles on floors as selected by architect.
F. Install tiles on walls as selected by architect.
G. Lay tile in grid pattern, unless otherwise indicated. Align joints where adjoining tiles on floor, base, walls, and trim are the same size.
H. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
END OF SECTION 09 30 00

SECTION 09 51 13 - ACOUSTICAL PANEL CEILINGS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and material Samples.
B. Surface-Burning Characteristics of Panels: ASTM E 1264, Class A materials, tested per ASTM E 84.
C. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
D. Seismic Standard: Provide acoustical panel ceilings designed and installed to withstand the effects of earthquake motions according to the following:
1. CISCA's Recommendations for Acoustical Ceilings: Comply with CISCA's "Recommendations for Direct-Hung Acoustical Tile and Lay-in Panel Ceilings".
PART 2 - PRODUCTS
2.1 ACOUSTICAL PANELS
A. Provide acoustical panels and suspension system as indicated on Finish Schedule.
B. Attachment Devices: Sized for 5 times the design load indicated in ASTM C 635, Table 1, Direct Hung, unless otherwise indicated. Comply with seismic design requirements.
C. Wire Hangers, Braces, and Ties: Zinc-coated carbon-steel wire; ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
D. Seismic Struts: Manufacturer's standard product designed to accommodate seismic forces.
E. Seismic Clips: Manufacturer's standard seismic clips designed to secure panels in place.
F. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetratons that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flangesof suspension system runners.
G. Extruded-Aluminum Edge Moldings and Trim: Where indicated, provide manufacturer's extruded-aluminum edge moldings and trim of profile indicated or referenced by manufacturer's designations, including splice plates, corner pieces, and attachment and other clips, complying with seismic design requirements and the following:
1. Provide trim in full lengths to elevate joint. If joints are required, joints to be butted and tight gaps are not acceptable.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Ceiling Suspension System Installation: Comply with ASTM C 636 and CISCA's "Ceiling Systems Handbook."
1. Fire-Rated Assembly: Install fire-rated ceiling systems according to tested fire-rated design.
B. Install acoustical panels with undamaged edges and fit accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
C. Arrange directionally patterned acoustical panels as indicated on Reflective Ceiling Plan.
END OF SECTION 09 51 13

SECTION 09 65 13 - RESILIENT BASE AND ACCESSORIES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and Samples.
PART 2 - PRODUCTS
2.1 RESILIENT BASE AND ACCESSORIES
A. Provide resilient rubber base transition strips and accessories as indicated on Finish Schedule.
B. Provide manufacturer's continuous rolls.
2.2 INSTALLATION ACCESSORIES
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement- or blended hydraulic cement-based formulation provided or approved by flooring manufacturer for applications indicated.
B. Adhesives: Water-resistant type recommended by manufacturer to suit products and substrate conditions.
C. Stair-Tread-Nose Filler: Two-part epoxy compound recommended by resilient tread manufacturer to fill nosing substrates that do not conform to tread contours.
D. Resilient Transition Strips: Rubber, in profile as indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Prepare concrete substrates according to ASTM F 710. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
B. Adhesively install resilient wall base and accessories.
C. Install wall base in maximum lengths possible. Apply to walls, columns, pilasters, casework, and other permanent fixtures in rooms or areas where base is required.
D. Install stair-tread-nose filler to nosing substrates that do not conform to tread contours.
E. Install reducer strips at edges of floor coverings that would otherwise be exposed.
F. Transition strips: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece.
END OF SECTION 09 65 13

SECTION 09 65 19 - RESILIENT TILE FLOORING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and Samples.
B. Fire-Test Response: Resilient tile has critical radiant flux classification of Class I, not less than 0.45 W/sq. cm per ASTM E 648.
PART 2 - PRODUCTS
2.1 RESILIENT TILE FLOORING
A. Provide resilient tile flooring as indicated on Finish Schedule.
2.2 INSTALLATION ACCESSORIES
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement- or blended hydraulic cement-based formulation provided or approved by flooring manufacturer for applications indicated.
B. Adhesives: water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.
C. Metal Edge Strips: Extruded aluminum in maximum available lengths to minimize joints.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Prepare concrete substrates according to ASTM F 710. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
1. Moisture Testing: Perform tests recommended by manufacturer complying with ASTM F1869 and ASTM F2170.
2. Proceed with installation only after substrates pass testing.
B. Lay out tiles so tile widths at opposite edges of room are equal and are at least one-half of a tile.
C. Match tiles for color and pattern by selecting tiles from cartons in same sequence as manufactured and packaged. Lay tiles in patterns indicated.
END OF SECTION 09 65 19

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ARCHITECT OF RECORD
FRANK W. CAMPBELL AIA
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SEAL:

COPY OF THIS PLAN IS NOT VALID UNLESS SIGNED, SEALED AND DATED BY THE ENGINEER OF RECORD.
CONSULTANT SEAL:

PROJECT DESCRIPTION:
A NEW OFFICE BUILDING FOR PROVIDENCE ONE PARTNERS
BUILDING - 01
1145 BUSINESS CENTER DRIVE
HEATHROW, FLORIDA, 32746

ISSUE FOR
CONSTRUCTION
ISSUE DATE
10.21.2025
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
F. CAMPBELL
PROJECT MANAGER
B. BUCKLEY
CLIENT NAME
Provedence One Partners
PROJECT NUMBER
24-0919-01
SHEET TITLE
NOTES
SHEET NUMBER
A0.2